

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently Amended): An antireflection film comprising a transparent support, at least one hard coat layer and a low refractive index layer, in this order, wherein the hard coat layer includes a polymerized product of (A) at least one ethylene oxide or propylene oxide adduct of a tri- to hexa-functional acrylate monomer and (B) at least one tri- to hexa-functional acrylate monomer having no oxide adduct,

wherein the total content of (A) and (B) is from 30 to 100% by weight, based on a total binder polymer content used to form the polymerized product,

wherein the ratio by weight of (A) to (B) is from 20/80 to 80/20, and

wherein the at least one monomer (B) is a mixture of dipentaerythritol hexa(meth)acrylate and dipentaerythritol penta(meth)acrylate comprises at least one monomer selected from the group consisting of:

- ____ (B-1) trimethylolpropane tri(meth)acrylate,
- ____ (B-2) trimethylethane tri(meth)acrylate,
- ____ (B-3) pentaerythritol tetra(meth)acrylate,
- ____ (B-4) pentaerythritol tri(meth)acrylate,
- ____ (B-5) ditrimethylolpropane tetra(meth)acrylate,
- ____ (B-6) ditrimethylolpropane tri(meth)acrylate,
- ____ (B-7) dipentaerythritol hexa(meth)acrylate,

- ____ (B 8) ~~dipentaerythritol penta(meth)acrylate~~,
- ____ (B 9) ~~dipentaerythritol tetra(meth)acrylate~~,
- ____ (B 10) ~~glycerin tri(meth)acrylate~~, and
- ____ (B 11) ~~1,2,3 cyclohexane tri(meth)acrylate~~.

Claim 2 (Previously Presented): The antireflection film as described in claim 1, wherein the monomer (A) has ethylene oxide or propylene oxide in a molar number of 1 to 15.

Claim 3 (Previously Presented): The antireflection film as described in claim 1, wherein the monomer (A) is an ethylene oxide adduct of trimethylolpropane tri(meth)acrylate.

Claim 4 (Canceled)

Claim 5 (Previously Presented): The antireflection film as described in claim 1, wherein the hard coat layer includes a binder and matt particles having an average particle diameter of from 1.0 to 10.0 μm , and the binder has a refractive index of from 1.48 to 2.00.

Claim 6 (Currently Amended): The antireflection film as described in claim 1, wherein the hard coat layer includes an inorganic filler containing at least one oxide selected from the group consisting of oxides of zirconium, titanium, aluminum, indium, zinc, tin, antimony and silicon.

Claim 7 (Previously Presented): The antireflection film as described in claim 1, wherein the low refractive index layer includes an inorganic filler containing silica or magnesium fluoride.

Claim 8 (Original) The antireflection film as described in claim 7, wherein the inorganic filler contained in the low refractive index layer has an average particle diameter of from 0.001 to 0.2 μm .

Claim 9 (Previously Presented): The antireflection film as described in claim 1, wherein each layer of the antireflection film is a cured film cured by irradiation of radiation or heat continuously after coating.

Claim 10 (Previously Presented): A process for producing an antireflection film, wherein the antireflection film is the antireflection film as described in claim 1, and the process comprises: continuously winding off a transparent support in a roll form; and coating by a microgravure coating method at least one of a hard coat layer and a low refractive index layer on one surface of the transparent support thus wound off.

Claim 11 (Previously Presented): A polarizing plate comprising a polarizing film and two protective films, wherein at least one of the two protective films is the antireflection film as described in claim 1.

Claim 12 (Previously Presented): A display device comprising the antireflection film as described in claim 1, wherein the low refractive index layer of the antireflection film is the outermost layer of a display.

Claim 13 (Canceled)

Claim 14 (Canceled)

Claim 15 (Previously Presented): The antireflection film as described in claim 1, wherein the at least one adduct (A) comprises at least one adduct selected from the group consisting of:

- (A-1) ethylene oxide adduct of trimethylolpropane tri(meth)acrylate (n = 1),
- (A-2) ethylene oxide adduct of trimethylolpropane tri(meth)acrylate (n = 1.5),
- (A-3) ethylene oxide adduct of trimethylolpropane tri(meth)acrylate (n = 2),
- (A-4) ethylene oxide adduct of trimethylolpropane tri(meth)acrylate (n = 6),
- (A-5) propylene oxide adduct of trimethylolpropane tri(meth)acrylate (n = 1),
- (A-6) propylene oxide adduct of trimethylolpropane tri(meth)acrylate (n = 2),
- (A-7) ethylene oxide adduct of glycerin tri(meth)acrylate (n = 2),
- (A-8) propylene oxide adduct of glycerin tri(meth)acrylate (n = 2),
- (A-9) ethylene oxide adduct of pentaerythritol tetra(meth)acrylate (n = 2),
- (A-10) propylene oxide adduct of pentaerythritol tetra(meth)acrylate (n = 2),
- (A-11) ethylene oxide adduct of ditrimethylolpropane tetra(meth)acrylate (n = 2),
- (A-12) propylene oxide adduct of ditrimethylolpropane tetra(meth)acrylate (n = 2),
- (A-13) ethylene oxide adduct of dipentaerythritol penta(meth)acrylate (n = 1.5),

(A-14) ethylene oxide adduct of dipentaerythritol hexa(meth)acrylate (n = 1),
(A-15) propylene oxide adduct of dipentaerythritol penta(meth)acrylate (n = 1.5),
(A-16) propylene oxide adduct of dipentaerythritol hexa(meth)acrylate (n = 1), and
(A-17) tris(2-hydroxyethyl)isocyanurate tri(meth)acrylate.

Claim 16 (Previously Presented): The antireflection film as described in claim 15, wherein the at least one adduct (A) comprises at least one adduct selected from the group consisting of (A-1), (A-2) and (A-10).